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Autore	Sagawa, Hiroyuki
Titolo	Fundamentals of quantum Information / Hiroyuki Sagawa, Nobuaki Yoshida
Pubbl/distr/stampa	Singapore, : World Scientific, 2021
ISBN	978-98-11-22721-9
Descrizione fisica	XIV, 296 p. ; 23 cm.
Altri autori (Persone)	Yoshida, Nobuaki
Disciplina	006.3
Soggetti	Informazione quantistica Intelligenza artificiale - Studi
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Sommario/riassunto	<p>This expanded version to the 2010 edition features quantum annealing algorithm and its application for optimization problems. Recent progress on quantum computing, especially, advanced topics such as Shor's algorithm, quantum search, quantum cryptography and architecture of quantum bit are also included. Book is self-contained and unified in its description of the cross-disciplinary nature of this field. It is not strictly mathematical, but aims to provide intuitive and transparent ideas of the subjects. The book starts from basic quantum mechanics and EPR pair and its measurements. Fundamental concepts of classical computer are given in order to extend it to quantum computer. Classical information theory is also explained in detail such as Shannon and Von Neumann entropy. Then quantum algorithm is introduced starting from Dutch-Josza and ending up with Shor's factorization algorithms. Quantum cryptography is also introduced such as BB84 Protocol, B92 protocol and E91 protocol. Eventually quantum search algorithm is explained. In summary, the book starts from basic quantum mechanics and eventually comes up to state-of-the-art quantum algorithm of quantum computations and computers. Students can obtain practical problem-solving ability by attempting the exercises at the end of each chapter. Detailed solutions to all problems are provided.</p>

2. Record Nr.	UNIORUON00529168
Autore	Krause, Wolfgang
Titolo	Runen / von Wolfgang Krause ; mit 17 figuren und 8 tafeln
Pubbl/distr/stampa	Berlin, : Walter de Gruyter & Co., 1970
Descrizione fisica	138 p., 8 p. di tav. : ill. ; 16 cm.
Lingua di pubblicazione	Tedesco
Formato	Materiale a stampa
Livello bibliografico	Monografia